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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
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Jens Chr Jensenius et al.FILING DATE
April 2, 1998

GROUP

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WAM	AA	5 2 7 0 1 9 9	12/14/93	Ezekowitz	435	372.1	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

WAM	AB	Garred, Peter, et al., "Increased frequency of homozygosity of abnormal mannan-binding-protein alleles in patients with suspected immunodeficiency", <u>The Lancet</u> , Vol. 346, No. 8980, pp. 941-943, Oct. 1995
	AC	Ikeda, Ken, et al., "Serum Lectin with Known Structure Activates Complement through the Classical Pathway", <u>The Journal of Biological Chemistry</u> , Vol. 262, No. 16, pp. 7451-7454, June 1987
	AD	Ji, Yue-Hua, et al., "Activation of the C4 and C2 Components of Complement by a Proteinase in Serum Bactericidal Factor, Ra Reactive Factor", <u>The Journal of Immunology</u> , Vol. 150, No. 2, pp. 571-578, Jan. 1993
	AE	Matsushita, Misao, et al., "Activation of the Classical Complement Pathway by Mannose-binding Protein in Assoc. with a Novel C1s-like Serine Protease, <u>J. Exp. Med.</u> , Vol. 176, pp. 1497-1502, Dec. 1992
	AF	Nielsen, S.L., et al., "The level of the serum opsonin, mannan-binding protein in HIV-1 antibody-positive patients", <u>Clinical and Experimental Immunology</u> , Vol. 100, No. 2, pp. 219-222, May 1995
	AG	Sato, Tetsuo, et al., "Molecular characterization of a novel serine protease involved in activation of the Complement system by mannose-binding protein", <u>Int'l Immunology</u> , Vol. 6, No. 4, pp. 665-669, January 1994
	AH	Sumiya, Michiko, et al., "Molecular basis of opsonic defect in immunodeficient children", <u>The Lancet</u> , Vol. 337, pp. 1569-1570, June 1991
	AI	Summerfield, J.A., et al., "Mannose binding protein gene mutations associated with unusual and severe infections in adults", <u>The Lancet</u> , Vol. 345, No. 8954, pp. 886-889, April 1995
	AJ	Thiel, Steffen, et al., "A second serine protease associated with mannan-binding lectin that activates complement", <u>Nature</u> , pp. 1-10, 1997
WAM	AK	Turner, Malcolm W., "Mannose-binding lectin: the pluripotent molecule of the innate immune system", <u>Immunology Today</u> , Vol. 17, No. 11, pp. 532-540, November 1996

EXAMINER

DATE CONSIDERED

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 09011/002001		SERIAL NO. 09/054,218	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Jens Chr Jensenius et al.			
				FILING DATE April 2, 1998		GROUP 1651	
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
WMM	BA	Kawasaki, T. et al., "Isolation and Characterization of a Mannan-Binding Protein From Rabbit Liver", <u>Biochem. Biophys. Res. Commun.</u> , 81:1018-1024 (1978)					
	BB	Kawasaki, N. et al., "A Serum Lectin (Mannan-Binding Protein) Has Complement-Dependent Bactericidal Activity", <u>J. Biochem</u> , 106:483-489 (1989)					
	BC	Kuhlman, Marcella et al., "The Human Mannose-Binding Protein Functions as an Opsonin", <u>J. Exp. Med.</u> , 169:1733-1745 (1989)					
	BD	Lipscombe, R.J. et al., "High frequencies in African and non-African populations of independent mutations in the mannose-binding protein gene", <u>Hum. Mol. Genet.</u> , 1:709-715 (1992)					
	BE	Madsen, Hans O. et al., "A new frequent allele is the missing link in the structural polymorphism of the human mannan-binding protein", <u>Immunogenetics</u> , 40:37-44 (1994)					
	BF	Super, M. et al., "Association of Low Levels of Mannan-Binding Protein with a Common Defect of Opsonisation" <u>Lancet</u> , ii:1236-1239 (1989)					
	BG	Garred, P. et al., "Susceptibility to HIV infection and progression of AIDS in relation to variant alleles of mannose-binding lectin", <u>Lancet</u> , 349:236-240 (1997)					
	BH	Malhotra, Rajneesh et al., "Glycosylation changes of IgG associated with rheumatoid arthritis can activate complement via the mannose-binding protein", <u>Nature Med.</u> , 1:237-243 (1995)					
	BI	Davies, Eric J., "Mannose-binding Protein Gene Polymorphism in Systemic Lupus Erythematosus", <u>Arthritis Rheum.</u> , 38:110-114 (1995)					
	BJ	Jensenius, J.C. et al., "Mannan-binding lectin (MBL): From investigations on fish and chickens to substitutions therapy in an infant with severe infections", <u>Immunology</u> , 86:Suppl. 1, 100 abstract (1995)					
	BK	Garred, P. et al., "Diallelic polymorphism may explain variations of the blood concentration of mannan- binding protein in eskimos, but not in black africans", <u>Eur. J. Immuno.</u> , 19:403-412 (1992)					
	BL	Thiel, S. et al., "Identification of a new mannan-binding protein associated serine protease (MASP-2), <u>Immunology</u> , 86:Suppl. 1, 101 (1995)					
WMM	BM	Baatrup, G. et al., "Demonstration in Human Plasma of a Lectin Activity Analogous to that of Bovine Conglu- tinin", <u>Scand. J. Immunol.</u> , 26:355-361 (1987)					
WMM	BN	Jensenius, J.C. et al., "EGGS: Conveniently Packaged Antibodies. Methods for purification of yolk IgG", <u>Immunol. Methods</u> , 46:63-66 (1981)					
EXAMINER <i>William W. Moore</i>				DATE CONSIDERED <i>2 December 2004</i>			
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	CA		Endo, Y. et al., "Exon structure of the gene encoding the human mannose-binding protein-associated serine protease light chain: comparison with complement C1r and C1s genes", <u>Int. Immunol.</u> , 9:1355-1358 (1996)				
Worm	CB		Tan, Suet et al., "Improvements on the purification of mannan-binding lectin and demonstration of its CA ²⁺ independent association with a C1s-like serine protease", <u>Biochem. J.</u> , 319:329-332 (1996)				
	CC		Barton, Geoffrey J., "Protein Multiple Sequence Alignment and Flexible Pattern Matching", <u>Methods Enzymol.</u> , 183:403-428 (1990)				
	CD		Takada, Fumio et al., "A new member of the C1s family of complement proteins found in a bactericidal factor, Ra-reactive factor, in human serum", <u>Biochem. Biophys. Res. Comm.</u> , 196:1003-1009 (1993)				
	CE		Journet, Agnes et al., "Cloning and sequencing of full-length cDNA encoding the precursor of human complement component C1r", <u>Biochem. J.</u> , 240:783-787 (1986)				
	CF		Leytus, Steven P. et al., "Nucleotide Sequence of the cDNA Coding for Human Complement C1r", <u>Biochemistry</u> , 25:4855-4863 (1986)				
	CG		MacKinnon, Charlotte M. et al., "Molecular cloning of cDNA for human complement component C1s. The complete amino acid sequence", <u>Eur. J. Biochem.</u> , 169:547-553 (1987)				
↓ Worm	CH		Tosi, Mario, "Complete cDNA Sequence of Human Complement C1s and Close Physical Linkage of the Homologous Genes C1s and C1r", <u>Biochemistry</u> , 26:8516-8524 (1987)				
	CI		Law, S.K.A. et al., <u>Complement 2, ed.</u> (Ed. Male D.) (In Focus, IRL Press, Oxford 1996)				
	CJ						
	CK						
	CL						
	CM						
	CN						
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Walter W. Navon			2 December 2004				
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Substitute Disclosure Form (PTO-1449)